Bid

23/10/2008

1627

METAUX SOLUTIONS (MONTREAL) INC.

2108, 32E AVENUE LACHINE, QUEBEC

**H8T 3H7** 

Tel.: (514) 633-8010

Sales Rep.

: ÉRIC

Reference : LINDA LACELLE

Expiration Date: 22/12/2008

Customer: 6323336

DART AEROSPACE LTD 1270, ABERDEEN STREET HAWKESBURY, ONTARIO

**K6A 1K7** 

Ship To:

Same

Fax: 1 (613) 632-4443

Item No.		Description	Qty.	Price	Total	T×.	
SH123	•	303 HEX .500 9 X 12'	108	8,30	896.40		
SH123		OU 303 HEX .500 17.X 12'	204	7.69	1 <del>568</del> .76	A	
		DELIVERY APPROX 1 WEEK					
		F.O.B MONTREAL.					
		THANKS,				•	
•		ERIC KAEHLERT.					

	•		
	**.	 Subtotal	2 <b>485.</b> 16
		TPS:	123.26
A) Regist :	er er wentennen - Marie er	 	
	7	Total .	2 588 42



# Certificate of Test

CERTIFICATION

HEAT E50377

ORDER 0496191/001 SON 28063C BOL 0149304 TAG 1851525 05/07/08 SHIP TO: Dart Acrospace L+D P10 7447 P13 56842 YOUR ORDER & DATE CUST TAG#IAC 4901 5/07/08 CUST# CASTLEO1 01-40367 TTEM DESCRIPTION --STD SOUNCE Country of Melt: BRI
Country of Mfg.: USA
NAFTA Country of Origin is Country of Melt GRADE 303 302 CDA HEX BAR 1/2 STD Size Ship Condition A Total Bundles 1 SON Weight 2200 SPECIFICATIONS MFG TO FINISHED BAR IN THE USA FROM BILLETS IMPORTED FROM BRITAIN
AMS 5640U TYPE I
ASTM A582 05
SOLUTION ANNEALED CONDITION
AISI-303, UNS \$30300, SAE30303
UNS \$30300, AISI 303

SPECIFICATIONS
ASTM A484 06B
DIN 50049/EN 10204 3.1B
FREE OF CONT. CARBIDE NETWORK
NO WELD REPAIR
FREE OF MERCURY CONTAMINATION SOLUTION ANNEALED CONDITION AISI-303 UNS S10300 SAE30303 UNS S30300, AISI 303 AM CASTLE 3303-11 R27 MECHANICAL & OTHER TESTS 230 HBW Test Condition Hardness as shipped Hardness as shipped 97 HRBS Hardness as converted from tensile Tensile strength, KSI (MPa) 0.2% Yield Strngth, KSI (MPa) 111.0 ( 765) 98.5 ( 679) 8.5 Grain size OX Micro OK Intergranular corresion Elongation % in 4D Reduction of area % 55.0 ---- CHEMICAL COMPOSITION ----2.740 (Mn) (S) (C) (P) (Si) (Ni) (Cu) (N) (Ti) Manganese .043 Carbon ,338 Sulphur .028 Phosphorus Silicon (Cr) 17.250 Chromium DATE RCVD 430 Cobalt (Co) (Mo) .119 8,660 Nickel IAC 4901 ,450 Moly Columbium .422 Nitrogen (Cb) .001 .051 .003 (AL) Aluminum Titenium .003 (B) ,001 Boron .012 (Sn) Tin .070 Vanadium (Ta) .002 Tantalum Columbium/ Tantalum (Cb+Ta) Iron (Fe) . 003 Balance Iron EAP Melt Practice

Refining Practice De-long Perrite Knowingly & willfully falsifying or concealing a material act on this form, or making false, fictitious or fraudulent statements or representations herein could constitute a felony punishable under federal statutes.

We hereby certify that the test results shown in this report are correct and accurate as contained in the records of the company and are in compliance with the specifications, codes, and standards listed above.

M.F. Marcanio, Quality Manager

Ownoloumpu Stolpless Sar, Inc. 3049 Cranshow Plays. Richburg, SC 29728

MF Marcone

Shipping Order

24/10/2008

'X SOLUTIONS (MONTRÉAL) INC. .: AVENUE

Customer: 8323338

**K6A 1K7** 

H8T 3H7

Tel: (514) 633-8010

Order Reference Bid

Ship

: 58842

: 7447 : 1827

: NOTRE CAMION YOUR TRUCK

Ship To

DART AEROSPACE LTD 1270, ABERDEEN STREET HAWKESBURY, ONTARIO

Atti Chantal

Same

Tei.: 1 (813) 632-3336

			•	
Isem No.	Description	Qty.	Qty. Deliver	E/O Qty
SH123	303 HEX .500	204	<b>Qty. Qty. Deliver</b> 244 <u>Z04</u>	Ø
	17 X 12 <sup>t</sup>			
	F.O.B MONTREAL.	•		
	·			
	CERTIFICATE REQUIRED			
	ĖK			

NOW SNOITH SOLUTIONS (MON Chiswant: 6323386 Refere Shipping Order 58842 E-GAMIGNY-GUR-TRUCK 24/10/2008

Same

765 · 1 (612) 632-2335

My. Deliver 204

8000x

300

SHIDE

W. Herri

125 F.S.Y.

HAWKESBURY, ONTARIO

DART AEROSPACE LTD 1270, ABERDEEN STREET

303 HEX 500

17 X 12<sup>1</sup>

F.O.B.MONTREAD CERTIFICATE REQUIRED

H

Frankey No Banding

Morehindise Received.



Customer: 6323336

**K6A 1K7** 

DART AEROSPACE LTD 1270, ABERDEEN STREET

HAWKESBURY, ONTARIO

2108, 32e Avenue t (514) 633-8010
Lachine, Québec f (514) 633-8044
HBT 3H7 1800 558-8858
Inflémetaux olutions com 1320 C, Volta t (450) 641-3330
Boucherville, Québec f (450) 641-3330

148 6G6

(450) 641-3330 (450) 641-3332 1 800 967-2003 DATE 31/10/2008

№/NO. **97982** 

Sales Rep.

: ÉRIC : 56842

Order Reference

: 7447

Terms Ship

: NET 30 JOURS / NET 30 DAYS

TST :

Invoice

Ship To:

Same

Tel.: 1 (613) 632-3336

Item No.	Description	Ord	Inv.	B/O Qty	Price	Total	Tx
SH123	303 HEX 500	. 204	204	0.	7.69	1.568.76	A.

SHIP TST/COLLECT

**CERTIFICATE REQUIRED** 

ΕK

RECEIVED NOV 0 6 2008

4) Regist:

Subtotal:

1 568.76

TPS :

78.44

Total:

1 647.20

TPS: 140667742RT - TVQ: 1017841196TQ0001

	~/ /	Rece	iving Rep	ort		
Ε	Date:	<u>3</u>	Bato	h No: <u>M</u>	19778	
	Supplier: MESA	poulisti	)∼ Dart	P/O:	7447	
Packing Slip: Invoice: Receipt: Discrepancles	Yes No Cash Cr		Vaybill Attache	Attached Your Plets of the State of the Stat	es I No	The second
Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments
•						
			-			1
	•	Initials	of receiver (	if shipment (	OK) Level 1	V/
roduction/Ad	lmin: 0811105		×		Location	·

H:\FORMS\Purchasing\approved purch\RECREPORT Rev D-

DART AEROSPACE LTD	Work Order:	62407
10 4		
Description: Rell Stud	Part Number:	13/122-4
Inspection Dwg: 18622 Rev:		Page 1 of 1

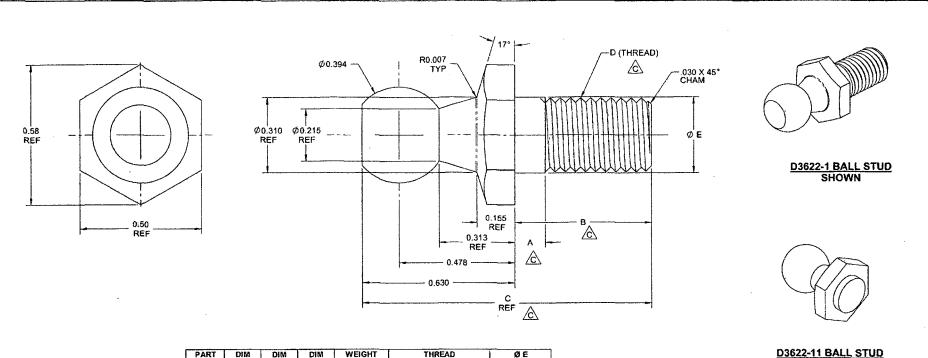
## FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
58	-1.030	-565				
, (0	£0	.50				
		0/ 2				
0,310	C = 010	0.30	/			
0-215	1.010 _	0-215				
0.394	C = (010)	0.394				
1.79	T.030	1,792				
-630	±,010	-630				
.478	* 010	.478				
.313	7.010	.313				
.155	± 515-	.157	/			
,090	I-030	:085				
1,160	7010	1.162				
3053	N/A	308				
-3126-24-UNF 3	L N/A	-325-2400				
M.O.V.	Min. 33363	.335				
	)					

Measured by:	Audited by:	Preliminary Approval:	N/a
Date: 10/08/30	Date: 16.09.30	Date:	

Rev	Date	Change	Revised by	Approved
E	10.04.14	Added preliminary approval	KJ	

n -- 2



PART	DIM	DIM	DIM DIM WEIGHT THREAD		i ø	E	
NUMBER	BER A B C (LBS)		Đ	MIN	MAX		
D3622-1	0.125	0.563	1.19	0.03	0.3125-24UNF-3A	0.3053	0.3125
D3622-3	0.125	0.563	1.19	0.03	0.1875-32UNF-3A	0.1840	0.1900
D3622-5	0.090	0.900	1.53	0.04	0.3125-24UNF-3A	0.3053	0.3125
D3622-7	0.060	0.330	0.96	0.03	0.3125-24UNF-3A	0.3053	0.3125
-D3622-9	0:090	_1.160	1.79	0.04	0:3125-24UNF-3A	0.3053	0.3125
D3622-11	0.060	N/A	0.69	0.02	NOT THREADED	0.270	0.300
D3622-13	0.090	0.680	1.31	0.03	0.3125-24UNF-3A	0.3053	0.3125

D3622-X BALL STUD



SHOWN

D

С

С	SHEET	1: ADD -5 2 DELETE	, -7, -9 D	,-11 & -13. ADD D3622-X TABLE.	JPH	10.07.20		
8	ADD -3	SHEET 2	)		HS	09.09.18		
Α	NEW IS	SUE			MB	07.04.13		
REV.				ESCRIPTION BY DATE				
DESIG	¥.	JP	1	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA				
DRAW	Ą	JP	4					
CHECK	ED	J	- A	DRAWING NO.		REV. C		
MFG. A	PPR.		6//	D3622		SHEET 1 OF 1		
APPRO	VED	1 Sal	7	TITLE		SCALE		
DE APP	PR.	-#	•	BALL STUD		NTS		
DATE 10.07.20				COPYRIGHT © 2009 BY DART AEROSPACE LTD  THIS DOCUMENT IN PRIVATE MAD COMPLETEN, AND IS TAPPED DOWN THE EXPRESS CONCITION THAT IT IS  NOT TO BE USED FOR ANY PLAYORS OR OTHER DO COMMANDATED TO JUST OTHER PERSON WITHOUT  NOTITION FOR THE STATE OF THE PERSON WITHOUT THE PERSON WITH				

NOTES:
1) MATERIAL: AISI 303 HEX BAR
REF DART SPEC M303H0.500

D

REF DART SPEC M303H0.300

2) FINISH: N/A

3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED

4) UNITS: INCHES UNLESS OTHERWISE NOTED

5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX

6) IDENTIFICATION: IDENT P/N D3622-X & B/N PER QSI 044

7) WEIGHT: SEE D3622-X TABLE

7

6

5

4

3

# **Picklist Print**

September 29, 2010 12:42:22 PM

Work Order ID: 62407

Parent Item:

D3622-9

Parent Item Name: Ball Stud

**Start Date:** 9/29/10

Required Date: 9/30/10

Start Qty: 4.00

Required Qty: 4.00

**Comments:** 

IPP REV:A NEW ISSUE 10-09-23 JLM VERIFIED BY:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M303H0.500		Purchased	No			100	f	125.8880	0.108	0.454737			
303 HEX BAR .500				<u>Location</u>		<u>Loc Q</u>	<u>ty</u>	Loc Code			12	101	65/30
					09778 109846	125. 101.			_ 	165 V	et	·	

## Work Order ID 62407

September 29, 2010 12:42:31 PM

Item ID:

D3622-9

Accept

Setup Start

**Revision ID:** 

Item Name:

Ball Stud

**Start Date:** 9/29/10 Start Qty: 4.00

Required Date: 9/30/10

Req'd Qty: 4.00

**Cust Item ID:** 

**Customer:** 

Reference:

**Approvals:** 

**Process Plan:** 

Date:

**Tooling:** 

Date:

Start

Stop

QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/ **Work Center ID** 

Operation Description

Identify as per dwg & Stock Location.

Set Up/ **Run Hours** 0.00

**Tool ID** 

Tool # Plan Code

Accept Qty

Reject Qty

Run

Reject Insp. Number Stamp

Packaging

130

Packaging

Memo

PPD 62779 /200

M 10.10.12 @

140

QC21- Final Inspection - Work Order Release

0.00

QC

Quality Control

Memo

0.00

H 10.10.72

PS10-10-15

#### Work Order ID 62407

September 29, 2010 12:42:31 PM

Item 1D: D3622-9 Accept Setup Start **Revision ID:** Stop Ball Stud Item Name: Start Date: 9/29/10 Start Oty: 4.00 Cust Item ID: **Reg'd Oty:** 4.00 Required Date: 9/30/10 **Customer:** Reference: Start Run Approvals: Process Plan: Date: **Tooling:** Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. Work Center ID Description Code Qty Stamp **Run Hours** Qty Number Draw Nbr **Revision Nbr** D3622 C 100 0.00 Hardinge CNC LATHE SMALL Hardinge 0.00 Memo Hardinge CNC Lathe Small 1-TURN AS PER FOLIO F968 & DWG D3622. FOLIO REV:\_ 10/05/30 DWG REV: 2-DEBURR AS REQUIRED 110 QC2- Inspect parts off machine FAI/FAIB 0.00 QC 0.00 Memo Quality Control Sh 10/08/20 120 QC8- Inspect parts - second check 0.00 Jul 10.09.30 (4) 8 QC 0.00 Memo Quality Control